

Recombinant Human AR Protein, His-tagged

Cat. No. AR-333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AR protein with a His-tag was expressed in Insect cells
Species	Human
Source	Insect Cells
ProteinLength	1-920 a.a.
Description	The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract from the normal 9-34 repeats to the pathogenic 38-62 repeats causes spinal bulbar muscular atrophy (SBMA, also known as Kennedy's disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	The protein has a calculated MW of 100.5 kDa.
AA Sequence	MEVQLGLGRVYPRPPSKTYRGAFQNLFSVREVIQNPGPRHPEAASAAPP GASLLL LQQQQQQQQQQQQQQQQQQQQQQQQQQQETSPRQQQQQQGEGDGPQAHRRGPTGY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LVLDEEQQPSQPQSALECHPERGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPS
 TSLLLGPTFPGLSLSSCSADLKDILSEASTMQLLQQQQQEAVSEGSSSGRAREASGAP
 TSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYAPLLG
 VPPAVRPTPCAPLAECKGSLDDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSSG
 AAAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYNNFPLALAGPPPPPPPPHAPHARI
 KLENPLDYGSAWAAAAAQCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAE
 EGQLYGPCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGEAGAVAPYGYTRPPQGLAGQ
 ESDFTAPDVWYPGGMVSRVPYPSPCTCVKSEMGPWMDSYSGPYGDMRLETARDHV
 LPIDYYFPPQKTCLICGDEASGCHYGALTGCSCKVFFKRAAEGKQKYL CASRNDCTI
 DKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTTEETTQKL
 TVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVK
 WAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWSFTNVNSRMLYFAPDLVFN
 EYRMHKSRMYSQCVRMRHLSQEFGLWQITPQEFLCMKALLFSIIPVDGLKNQKFF
 DELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHM
 VSVDFPEMMAEIIISVQVPKILSGKVKPIYFHTQLRHHHHHHHHH

Purity >80% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.1 mg/mL

Storage Buffer 20mM Tris, 100mM NaCl, 20% glycerol, 0.5mM EDTA, 1mM DTT, pH8.0

GENE INFORMATION

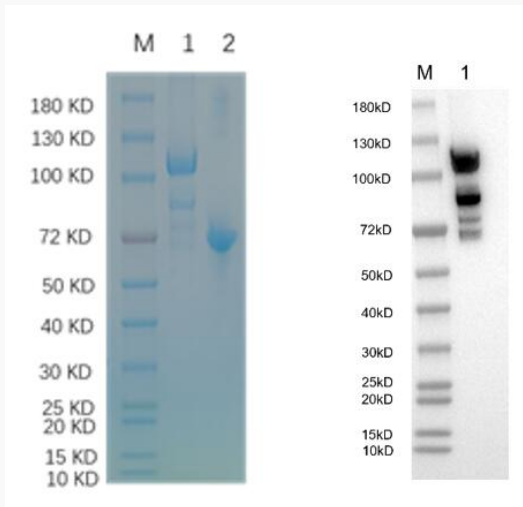
Gene Name AR androgen receptor [Homo sapiens (human)]

Official Symbol AR

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Synonyms	AR; androgen receptor; DHTR, dihydrotestosterone receptor , SBMA, spinal and bulbar muscular atrophy; AIS; HUMARA; Kennedy disease; NR3C4; SMAX1; testicular feminization; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4; KD; TFM; DHTR; SBMA; HYSP1;
Gene ID	367
mRNA Refseq	NM_000044
Protein Refseq	NP_000035
MIM	313700
UniProt ID	P10275
SDS-PAGE:	 Reducing 12% SDS-PAGE and WB analysis profile of purified AR 1. AR

2. BSA

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